

Docket No. 289603US0PCT



MAIL STOP PCT  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kohei YAMADA, et al:

SERIAL NO: 10/577,064

GAU:

FILED: April 24, 2006

EXAMINER:

FOR: ALPHA-1-PHOSPHORYLATED-2-DEOXY-2-FLUOROARABINOSIDE AND PROCESS FOR PRODUCING 2'-DEOXY-2'-FLUORO-BETA-D-ARABINONUCLEOSIDE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
289603US0PCTSERIAL NO.  
10/577,064

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT  
Kohei YAMADA, et al.FILING DATE  
April 24, 2006

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AL	99 67378	12/29/1999	WO		NO
	AM	7 23395	3/15/1995	JP (equivalent of EP 0 219 829)		NO
	AN	2002 205996	7/23/2002	JP (equivalent of EP 1 178 051)		NO
	AO	63 258891	10/26/1988	JP (equivalent of EP 0 285 432)		NO
	AP					
	AQ					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

AR	LOK et al., "POTENT GENE-SPECIFIC INHIBITORY PROPERTIES OF MIXED-BACKBONE ANTISENSE OLIGONUCLEOTIDES COMPRISED OF 2'-DEOXY-2'-FLUORO-D-ARABINOSE AND 2'-DEOXYRIBOSE NUCLEOTIDES", BIOCHEMISTRY, Vol. 41, pages 3457-3467, 2002	
AS	MIN et al., "OLIGONUCLEOTIDES COMPRISED OF ALTERNATING 2'-DEOXY-2'-FLUORO- $\beta$ -D-ARABINONUCLEOSIDES AND D-2'-DEOXYRIBONUCLEOSIDES (2'-F-ANA/DNA 'ALTIMERS') INDUCE EFFICIENT RNA CLEAVAGE MEDIATED BY RNASE H", BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, Vol. 12, pages 2651-2654, 2002	
AT	TANN et al., "FLUOROCARBOHYDRATES IN SYNTHESIS. AN EFFICIENT SYNTHESIS OF 1-(2-DEOXY-2-FLUORO- $\beta$ -D-ARABINO-FURANOSYL)-5-IODOURACIL ( $\beta$ -FIAU) AND 1-(2-DEOXY-2-FLUORO- $\beta$ -D-ARABINOFURANOSYL)THYMINE ( $\beta$ -FMAU)", J. ORG. CHEM., Vol. 50, pages 3644-3647, 1985	
AU	HOWELL et al., "ANTIVIRAL NUCLEOSIDES. A STEREOSPECIFIC, TOTAL SYNTHESIS OF 2'-FLUORO-2'-DEOXY- $\beta$ -D-ARABINOFURANOSYL NUCLEOSIDES", J. ORG. CHEM., Vol. 53, pages 85-88, 1988	<input type="checkbox"/> Additional References sheet(s) attached
AV	WILDS et al., "2'-DEOXY-2'-FLUORO- $\beta$ -D-ARABINONUCLEOSIDES AND OLIGONUCLEOTIDES (2'-F-ANA): SYNTHESIS AND PHYSICOCHEMICAL STUDIES", NUCLEIC ACIDS RESEARCH, Vol. 28, No. 18, pages 3625-3635, 2000	
AW	ELZAGHEID et al., "A NEW SYNTHESIS OF 9-(2-DEOXY-2-FLUORO- $\beta$ -D-ARABINOFURANOSYL) GUANINE (ARAF-G)", NUCLEOSIDES, NUCLEOTIDES & NUCLEIC ACIDS, Vol. 22, No. 5-8, pages 1339-1342, 2003	
AX	YAMADA et al., "PRACTICAL SYNTHESIS OF 2'-DEOXY-2'-FLUOROARABINOFURANOSYL PURINE NUCLEOSIDES BY CHEMO-ENZYMATIC METHOD", NUCLEIC ACIDS SYMPOSIUM SERIES, Vol. 48, pages 45-46, 2004	

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. PCT Application Serial No: 10/577,064

Filed: April 24, 2006

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#### STATEMENT OF RELEVANCY

- 1) Reference AN has been cited in the International Search Report. A copy of this references is being submitted herewith. JP 2002-205956 was filed on April 24, 2006. The equivalent EP 1 178 051 is enclosed.
- 2) References            have been cited in the corresponding            Search Report. A copy of these references is being submitted herewith.
- 3) References AL-AM, AO, AR-AU are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References AV-AX are additional prior art known to Applicant. A copy of these references is being submitted herewith.